This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.   (Previously Presented) A method for maintaining electronic patient medical information, comprising:

generating an electronic patient data structure including patient biographical information and one of medical history information including medical event information, medication schedule information, and appointment schedule information;

electronically transmitting the patient data structure between a physician computer and a portable patient device, wherein the patient data structure is capable of being modified; and

displaying, in the display of the portable computing device, a main menu of selectable views, wherein the selectable views comprise a patient bio view, a medical history view, a patient medication schedule view, an appointment schedule view, and a log view, and wherein the appointment schedule view displayed in the display of the portable computing device differs from the appointment schedule view that is displayable on a display at the physician computer.

2.   (Cancelled) The method of claim 1, wherein the portable patient device includes a display, further comprising:

displaying, in the display of the portable computing device, a patient medication schedule view and an appointment schedule view stored in the patient data structure to allow the patient to review scheduled medication and appointments.

3.   (Previously Presented) The method of claim 1, further comprising:

indicating, with the portable patient device, that one scheduled patient medication shown in the patient medication schedule view was taken, wherein the medication schedule view provides a calendar display of a medication schedule derived from prescription subrecords in a patient record; and

storing the indication that the patient took the scheduled patient medication in the patient data structure in the portable computing device.

4.   (Previously Presented) The method of claim 1, further comprising setting an alarm to activate to provide an alert of one scheduled patient medication or appointment, wherein the alarm is set by a patient.

5.   (Previously Presented) The method of claim 1, wherein the log information is read-only and once generated cannot be altered.

6.   (Previously Presented) The method of claim 1, further comprising:

adding, with the physician computer, one of appointment and medication events to the patient data structure, wherein one appointment event indicates a scheduled medical related visit and one medication event indicates a drug prescription, wherein the drug prescription is digitally signed with a physician public key so that a pharmacist may authenticate an electronic prescription; and

transmitting the modified patient data structure to the patient device.

7.   (Previously Presented) The method of claim 6, wherein the patient device includes a display, further comprising:

displaying, in the display of the patient device, in the patient medication schedule view and in the appointment schedule view the added one of appointment and medication events stored in the patient data structure that were added to the patient data structure to allow the patient to review scheduled medication and appointments.

8.   (Previously Presented) The method of claim 6, further comprising:

storing, with the physician computer, patient data structures for multiple patients;

displaying, at the physician computer, an interactive schedule of patient appointments from the appointment schedule view maintained in the patient data structures, wherein appointment events are added to one patient data structure through the displayed interactive schedule of patient appointments, and wherein the displayed interactive schedule of patient appointments displays scheduled appointments for all patient records.

9.   (Original) The method of claim 1, wherein the patient data structure further includes patient insurance billing information that can be used to generate insurance claims for patient services.

10.   (Original) The method of claim 1, further comprising using an additional computer to modify information in the patient data structure and transmit the modified patient data structure to the portable patient device.

11.   (Previously Presented) A medical information system for maintaining electronic patient medical information for use in a physician computer and a portable patient device, the physician computer comprising:

a computer readable medium including an electronic patient data structure including patient biographical information and one of medical history information including medical event information, medication schedule information, and appointment schedule information;

at least one communication port capable of transmitting the patient data structure to the portable patient device and receiving the patient data structure from the portable patient device;

displaying, in the display of the portable computing device, a main menu of selectable views, wherein the selectable views comprise a patient bio view, a medical history view, a patient medication schedule view, an appointment schedule view, and a log view, and wherein the appointment schedule view displayed in the display of the portable computing device differs from the appointment schedule view that is displayable on a display at the physician computer; and

means for modifying information in the patient data structure via at least one of the patient bio view, the medical history view, the patient medication schedule view, and the appointment schedule view, wherein the modified patient data structure is capable of being transmitted to the portable patient device via the communication port.

12.   (Previously Presented) The system of claim 11, wherein the physician computer further comprises:

means for displaying the patient medication schedule view and the appointment schedule view stored in the patient data structure to allow the physician to review scheduled medication and appointments.

13.   (Original) The system of claim 12, wherein the physician computer further comprises means for generating log information indicating modifications to information in the patient data structure, wherein the log information is read-only and once generated cannot be altered.

14.   (Previously Presented) The system of claim 12, wherein the physician computer further comprises:

means for adding one of appointment and medication events to the patient data structure, wherein one appointment event indicates a scheduled medical related visit and one medication event indicates a drug prescription, wherein the drug prescription is digitally signed; and

transmitting, via the communication port, the modified patient data structure to the portable patient device.

15.   (Previously Presented) The system of claim 11, wherein the physician computer further comprises:

means for storing patient data structures for multiple patients;

means for displaying an interactive schedule of patient appointments from appointment schedule information maintained in the patient data structures, wherein appointment events are added to one patient data structure through the displayed interactive schedule of patient appointments, and wherein the displayed interactive schedule of patient appointments displays scheduled appointments for all patient records.

16.   (Original) The system of claim 11, wherein the patient data structure further includes patient insurance billing information that the physician computer uses to generate insurance claims for patient services.

17.   (Previously Presented) A medical information system for maintaining electronic patient medical information for use in a physician computer and a portable patient device, wherein the patient device includes:

computer readable medium including an electronic patient data structure including patient biographical information and one of medical history information including medical event information, medication schedule information, and appointment schedule information; and

at least one communication port capable for transmitting the patient data structure to the physician computer and receiving the patient data structure from the physician computer, wherein the patient data structure is capable of being modified; and

displaying, in the display of the portable computing device, a main menu of selectable views, wherein the selectable views comprise a patient bio view, a medical history view, a patient medication schedule view, an appointment schedule view, and a log view, and wherein the appointment schedule view displayed in the display of the portable computing device differs from the appointment schedule view that is displayable on a display at the physician computer.

18.   (Cancelled) The system of claim 17, wherein the portable patient device further includes:

a display for displaying views of the patient medication and appointment schedule information stored in the patient data structure to allow the patient to review scheduled medication and appointments.

19.   (Currently Amended) The system of claim ~~18~~ 17, wherein the portable patient device further comprises:

means for indicating that one scheduled patient medication was taken, wherein the medication schedule view provides a calendar display of a medication schedule derived from prescription subrecords in a patient record; and

means for storing the indication in the patient data structure that the patient took the scheduled medication.

20.   (Previously Presented) The system of claim 17, wherein the portable patient device further comprises means for setting an alarm to activate to provide an alert of one scheduled patient medication or appointment, wherein the alarm is set by a patient.

21.   (Original) The system claim 17, wherein the portable patient device further comprises means for generating log information indicating modifications to information in the patient data structure, wherein the log information is read-only and once generated cannot be altered.

22.   (Original) The system of claim 17, wherein the patient data structure further includes patient insurance billing information that can be used to generate insurance claims for patient services.

23.   (Previously Presented) The system of claim 17, further comprising an additional computer, wherein the additional computer includes:

means for transmitting the electronic patient medical information between the additional computer and the portable patient device, wherein the additional computer is capable of modifying information in the patient data structure via at least one of the patient bio view, the medical history view, the patient medication schedule view, and the appointment schedule view and transmitting the modified patient data structure to the portable patient device.

24.   (Original) The system of claim 17, wherein the portable patient device comprises one of a smart card, palm computing device, hand-held computing device, and laptop computer.

25.   (Previously Presented) An article of manufacture embodied on a computer-readable medium for use in a medical information system to maintain electronic patient medical information for use in a physician computer and a portable patient device, the article of manufacture comprising at least one computer program capable of causing the physician computer to perform:

reading an electronic patient data structure including patient biographical information and one of medical history information including medical event information, medication schedule information, and appointment schedule information;

transmitting the patient data structure to the portable patient device;

receiving the patient data structure from the portable patient device;

displaying, in the display of the portable computing device, a main menu of selectable views, wherein the selectable views comprise a patient bio view, a medical history view, a patient medication schedule view, an appointment schedule view, and a log view, and wherein the appointment schedule view displayed in the display of the portable computing device differs from the appointment schedule view that is displayable on a display at the physician computer; and modifying information in the patient data structure via at least one of the patient bio view, the medical history view, the patient medication schedule view, and the appointment schedule view, wherein the modified patient data structure is capable of being transmitted to the portable patient device via the communication port.

26.   (Original) The article of manufacture of claim 25, further causing the physician computer to perform:

displaying views of the patient medication and appointment schedule information stored in the patient data structure to allow the physician to review scheduled medication and appointments.

27.   (Original) The article of manufacture of claim 26, further causing the physician computer to perform:

generating log information indicating modifications to information in the patient data structure, wherein the log information is read-only and once generated cannot be altered.

28.   (Previously Presented) The article of manufacture of claim 26, further causing the physician computer to perform:

adding one of appointment and medication events to the patient data structure, wherein one appointment event indicates a scheduled medical related visit and one medication event indicates a drug prescription, wherein the drug prescription is digitally signed; and

transmitting the modified patient data structure to the portable patient device.

29.   (Previously Presented) The article of manufacture of claim 25, further causing the physician computer to perform:

storing patient data structures for multiple patients;

displaying an interactive schedule of patient appointments from appointment schedule information maintained in the patient data structures, wherein appointment events are added to one patient data structure through the displayed interactive schedule of patient appointments, and wherein the displayed interactive schedule of patient appointments displays scheduled appointments for all patient records.

30.   (Original) The article of manufacture of claim 25, wherein the patient data structure further includes patient insurance billing information, further causing the physician computer to perform:

accessing the insurance billing information from the patient data structure to use in billing medical services to the patient's insurance company.

31.   (Previously Presented) An article of manufacture embodied on a computer-readable medium for use in a medical information system to maintain electronic patient medical information for use in a physician computer and a portable patient device, the article of manufacture comprising at least one computer program capable of causing the portable patient device to perform:

storing an electronic patient data structure including patient biographical information and one of medical history information including medical event information, medication schedule information, and appointment schedule information;

transmitting the patient data structure to the physician computer;

receiving the patient data structure from the physician computer, wherein the patient data structure is capable of being modified; and

displaying, in the display of the portable computing device, a main menu of selectable views, wherein the selectable views comprise a patient bio view, a medical history view, a patient medication schedule view, an appointment schedule view, and a log view, and wherein the appointment schedule view displayed in the display of the portable computing device differs from the appointment schedule view that is displayable on a display at the physician computer.

32.   (Cancelled) The article of manufacture of claim 31, further causing the patient device to perform:

displaying views of the patient medication and appointment schedule information stored in the patient data structure to allow the patient to review scheduled medication and appointments.

33.   (Currently Amended) The article of manufacture of claim 3̶2̶ 31, further causing the patient device to perform:

indicating that one scheduled patient/medication was taken, wherein the medication schedule view provides a calendar display of a medication schedule derived from prescription subrecords in a patient record; and

storing the indication in the patient data structure that the patient took the scheduled medication.

34.   (Previously Presented) The article of manufacture of claim 31, further comprising setting an alarm to activate to provide an alert of one scheduled patient medication or appointment, wherein the alarm is set by a patient.

35.   (Original) The article of manufacture of claim 31, further causing the patient device to perform:

generating log information indicating modifications to information in the patient data structure, wherein the log information is read-only and once generated cannot be altered at the physician computer or by the patient device.

36.   (Previously Presented) The article of manufacture of claim 31, further causing the patient device to perform:

transmitting the electronic patient medical information to an additional computer, wherein the additional computer is capable of modifying information in the patient data structure via at least one of the patient bio view, the medical history view, the patient medication schedule view, and the appointment schedule view and transmitting the modified patient data structure to the portable device.